

CLAIMS

We Claim:

- 5
1. A method for the detection of a demyelinating disease comprising:
- Sub C
- a) providing: i) a sample from a human suspected of having a demyelinating disease, and ii) iron binding protein;
- b) reacting said sample with said iron binding protein; and
- c) measuring the extent of binding of said iron binding protein to said sample.
- 10
2. The method of Claim 1, wherein said sample is brain tissue.
- Sub D
3. The method of Claim 2, wherein said brain tissue is collected *via* surgical biopsy.
- Sub E
4. The method of Claim 1, wherein said iron binding protein is ferritin.
5. The method of Claim 4, wherein said ferritin is native.
6. The method of Claim 4, wherein said ferritin is recombinant.
7. The method of Claim 4, wherein said ferritin is linked to a detectable marker.
8. The method of Claim 7, wherein said marker is selected from the group consisting of radioisotope and florescent dye.
- Sub F
9. The method of Claim 8, wherein said radioisotope is ^{125}I .
10. The method of Claim 1, wherein said measuring is performed with a technique
- Sub G

5/63

- 5

10

[illegible]

add C₄